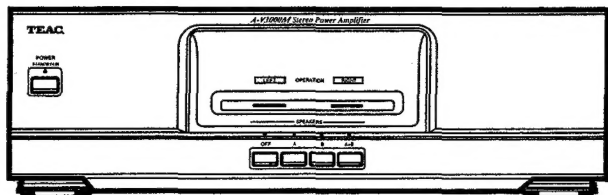


AV SURROUND AMP



POWER AMP

TEAC

A-V3000P/A-V3000M

SERVICE MANUAL

NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [] mark can be used only with the version designated.
[GE]: GENERAL EXPORT [E]: EUROPE [UK]: U. K. [A]: AUSTRALIA

CONTENTS

• TECHNICAL SPECIFICATION	2
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■ A-V3000P

• IC701 [ANAM 1035A (NEC : μ PD75P104GF) μ -COM]	3
• IC72 [BVIANAMW1078A (NEC : μ D75P104GF) μ -COM]	5
• WIRING DIAGRAM	7
• BLOCK DIAGRAM	8
• SCHEMATIC DIA1GRAM	10
• PRINTED CIRCULT BOARDS	16
• EXPLODE VIEW	20
• ELECTRICAL PARTS LIST	32

■ A-V3000M

• WIRING DIAGRAM	22
• BLOCK DIAGRAM	24
• SCHEMATIC DIAGRAM	26
• PRINTED CIRCULTBOARDS	28
• EXPLODE VIEW	30
• ELECTRICAL PARTS LIST	33

TECHNICAL SPECIFICATION

A-V3000P

■ PREAMPLIFIER (when Surround is "OFF")

- Output Voltage : 2ch × 1V
- T. H. D
1KHz/1V : 0.01%
- S/N Ratio
PHONO(IHF-A) : 70dB
TUNER, TAPE(IHF-A) : 95dB
CD/AUX : 95dB
- Sensitivity and Impedance
PHONO : 2.6mV/47K Ω
TUNER/TAPE : 180mV/47K Ω
CD/AUX : 180mV/47K Ω
- Frequency Response
PHONO(RIAA STANDARD CURVE)
: 30Hz~15KHz(± 0.8 dB)
TUNER/TAPE : 10Hz~150KHz(-3dB)
CD/AUX : 10Hz~150KHz(-3dB)

■ POWER AMPLIFIER(when prologic is "ON")

- Continuous output (1KHz, 8 Ω)
Center 50W × 1ch : 0.5%
Rear 50W × 2ch : 0.5%
- Frequency Response
Center : 20Hz~80KHz(-3dB)
Rear : 100Hz~7KHz (-3dB)
- S/N Ration (ccIR ARM)
Center : 75dB
Rear : 70dB

■ General

- POWER consumption : 285w
- POWER supply : AC230V, 50Hz
- Dimension (W × H × D): 430 × 136 × 311mm
- Weight : 7.5Kg

A-V3000M

■ AMPLIFIER

- Continuous output power
20~20KHz : 2ch × 100W(8 Ω)
- T. H. D : 0.02%
- S/N Ratio
IHF-A NETWORK : 120dB
- Sensitivity and Impedance
: 1V/47K Ω
- Frequency Response
Incase that the output is/1W
: 10Hz~85KHz(-3dB)
- Channel separation : 80dB

■ General

- POWER Consumption : 365W
- POWER Supply : AC230V, 50Hz
- Dimension(W × H × D) : 430 × 140 × 322mm
- Weight : 9Kg

IC701 [ANAM1035A (NEC : μ PD75104GF) μ -COM]

NO.	SYMBOL	I/O	DESCRIPTION
1	Key input	I/O	Key input LDP PORT.
2	Key input	I/O	Key input VCR PORT
3	Key COM	I/O	N. C
4	Key COM	I/O	Key output PORT
5	Key COM	I/O	Key output PORT
6	VR. LED	I/O	Key output PORT
7	VR. DOWN	I/O	VOLUME DOWN Control
8	VR. UP	I/O	VOLUME UP Control
9, 10	P06, P07	I/O	N. C
11	Remocon in	I/O	Remote control input port.
12	System in	I/O	Remote control input port
13	System out	I/O	Remote control outpt port
14	P13	I/O	N. C
15	T/T stort/out	I/O	Turn Table start/stop
16	P15	I/O	N. C
17	-20dB	I/O	-20dB mute port
18	AM	I/O	SIGNAL MUTE PORT
19	Back up	I/O	BACK UP PORT
20	TEST	I	DIGITAL GND PORT
21	1S	I/O	N. C
22	2S	I/O	N. C
23	RESET	I/O	RESET INPUT PORT
24	X-in	I	OSC INPUT PORT
25	X-out	O	OSC OUTPUT PORT
26	V _{ss} /GND	I	DIGITAL GND PORT
27	PH	I/O	PHONO LED Control
28	TU	I/O	TUNER LED Control
29	T1	I/O	TAPE 1 LED Control
30	T2	I/O	TAPE 2 LED Control

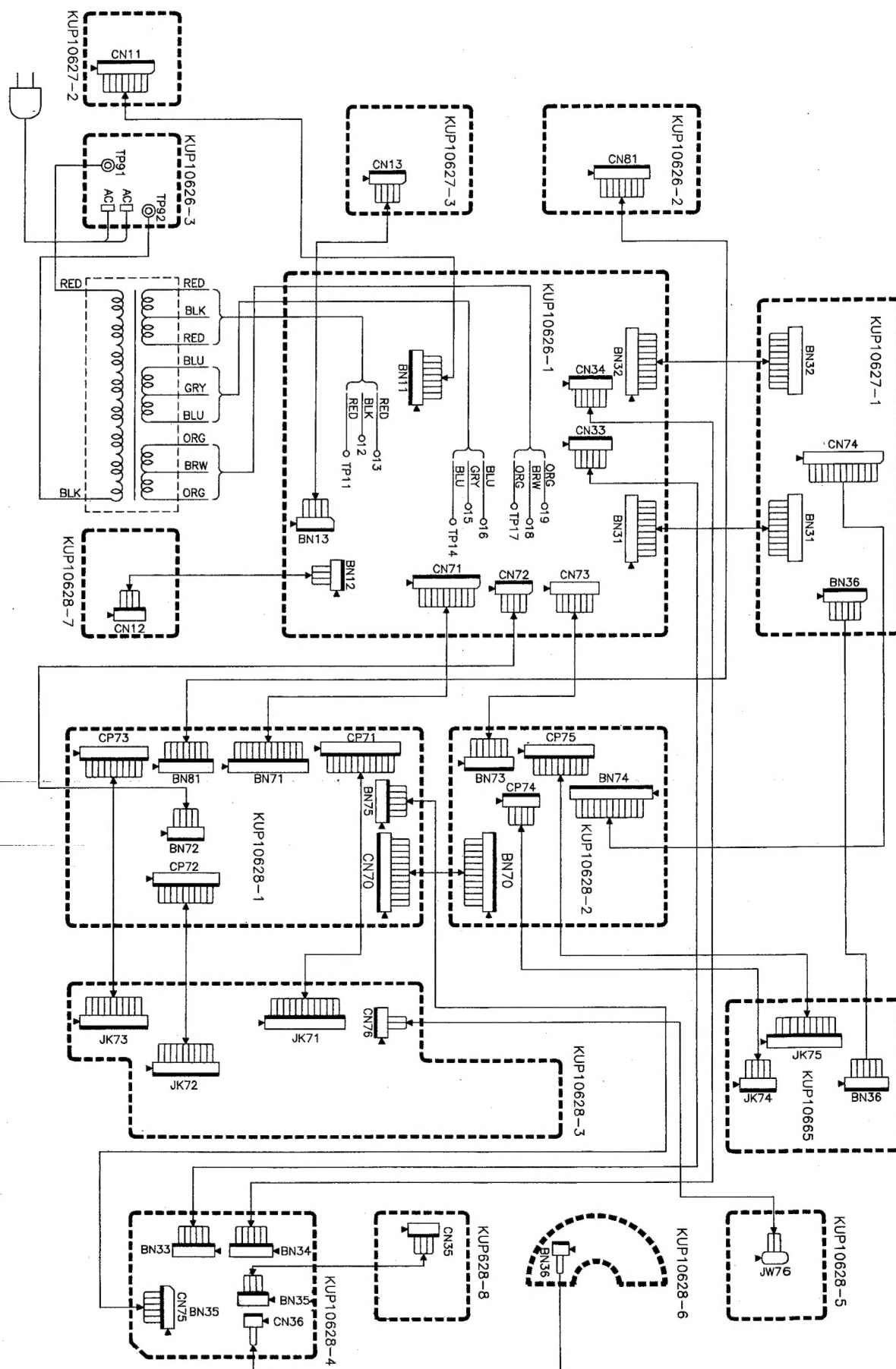
NO.	SYMBOL	I/O	DESCRIPTION
31	CD	I/O	CD LED Contral
32	VCR	I/O	VCR LED Contral
33	LDP	I/O	LDP LED Contral
34	AUX	I/O	AUX LED Contral
35	SP	I/O	SPEAKER ON/OFF
36	P. M	I/O	OUTPUT MUTE PORT
37~42	P42~P47	I/O	N. C
43	P-OUT	I/O	POWER ON/OFF
44	AI	I/O	AI ON/OFF
45	STB	I/O	INPUT SELECTION I.C (TC9/63N) CONTROL PORT
46	CLK	I/O	
47	DATA	I/O	
48	VASS	I	DIGITAL GND PORT
49	VAREF	I	VCC(+5)
50~53	P60~P63	I/O	N. C
54	Prote-in	I/O	PROTECTOR INPUT PORT
55	VR-Postition	I/O	VOLUME POSLTION PORT
56~57	P66~P67	I/O	N. C
58	Vcc	I	VCC(+5V)
59	POWER	I/O	POWER PHONO KEY INPUT PORT
60	TUNER, SP	I/O	TUNER SPKEY INPUT PORT
61	T1	I/O	TAPE1 KEY INPUT PORT
62	T2, AI	I/O	TAPE AI KEY INPUT PORT
63	CD	I/O	C/D KEY INPUT PORT

IC75[BV1ANAM1078A (NEC: μ D75P104GF) μ -COM]

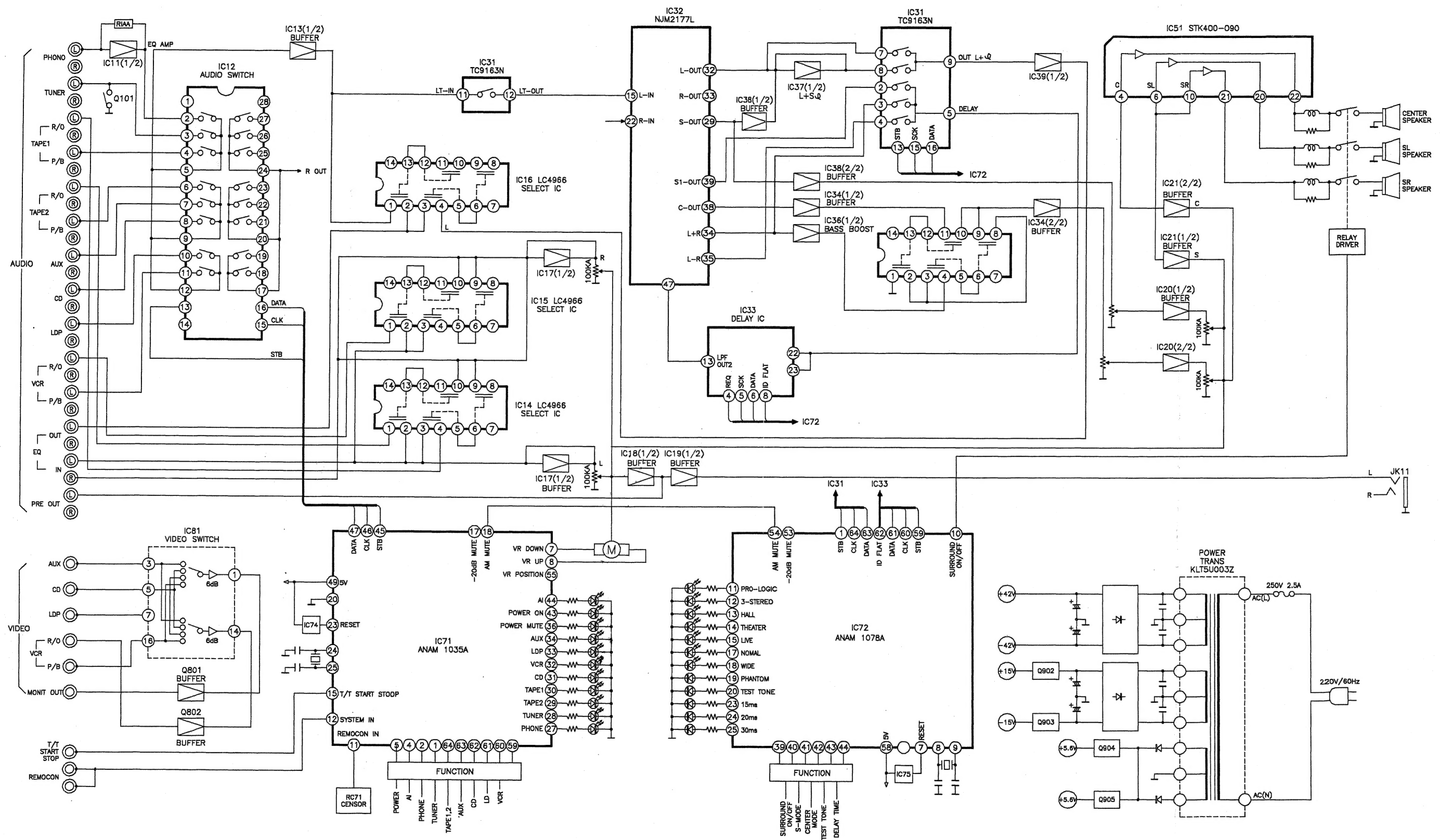
NO.	SYMBOL	I/O	DESCRIPTION																								
1	ST1	I/O	TC9163N Control PORT																								
2~6	P40, P50~53	I/O	N. C																								
7	RESET	I	RESET INPUT PORT																								
8	X2	O	OSC OUTPUT PORT																								
9	X1	I	OSC INPUT PORT																								
10	SURROUND	I/O	SURROUND ON/OFF																								
11	PRO-LOGIC	I/O	PROLOGIC LED PORT																								
12	3 STEREO	I/O	3 STEREO LED PORT																								
13	HALL	I/O	HALL LED PORT																								
14	THEATER	I/O	THEATER LED PORT																								
15	LIVE	I/O	LIVE LED PORT																								
16	Center	I/O	CENTER ON/OFF																								
17	NORMAL	I/O	NORMAL LED PORT																								
18	WIDE	I/O	WIDE LED PORT																								
19	PHANTOIU	I/O	PHANTOM LED PORT																								
20	A	I/O	<table><tr><td>Signal selection</td><td>E H</td><td>A X</td><td>B X</td></tr><tr><td>NOISE L</td><td>L</td><td>L</td><td>L</td></tr><tr><td>NOISE C</td><td>L</td><td>L</td><td>H</td></tr><tr><td>NOISE R</td><td>L</td><td>H</td><td>L</td></tr><tr><td>NOISE S</td><td>L</td><td>H</td><td>H</td></tr></table>	Signal selection	E H	A X	B X	NOISE L	L	L	L	NOISE C	L	L	H	NOISE R	L	H	L	NOISE S	L	H	H				
Signal selection	E H	A X		B X																							
NOISE L	L	L		L																							
NOISE C	L	L		H																							
NOISE R	L	H	L																								
NOISE S	L	H	H																								
21	B	I/O																									
22	E	I/O																									
23	S	I/O	DELAYTIME LED PORT																								
24	M	I/O	DELAYTIME LED PORT																								
25	L	I/O	DELAYTIME LED PORT																								
26	V _{SS}	I	DIGLTAL GND PORT																								
27	P13, P12	I	N. C																								
28	P13, P12	I	N. C																								
29	PROTECTOR	I	PROTECTOR INPUT PORT																								
30	REMOCON	I	RETECTOR INPUT PORT																								
31~38		I	N. C																								
39~40	KEY, COM	I/O	KEY OUTPUT PORT																								
41~44	KEY	I/O	KEY INPUT PORT																								

NO.	SYMBOL	I/O	DESCRIPTION
45~53		I/O	N. C
54	AM	I/O	SIGNAL MUTE
55	PM	I/O	OUTPUT MUTE
56, 57		I/O	N. C
58	V _{DD}		VCC(+5V)
59	REQ	I/O	Delay IC (NJU9701) Control.
60	CLK	I/O	
61	DATA	I/O	
62	IDFLAT	I/O	
63	DATA		TC9163N Control port
64	CLK		

■ A-V3000P WIRING DIAGRAM

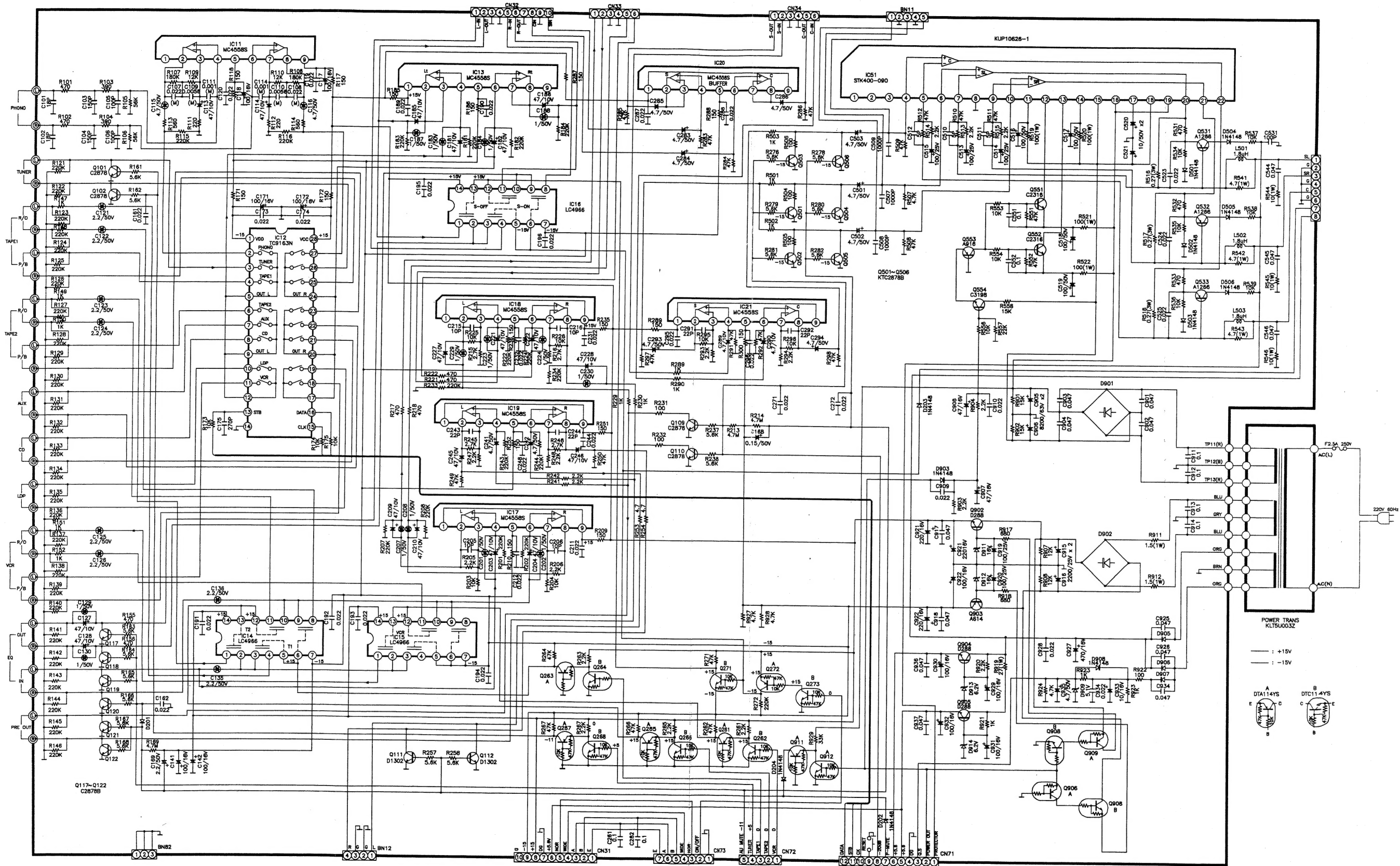


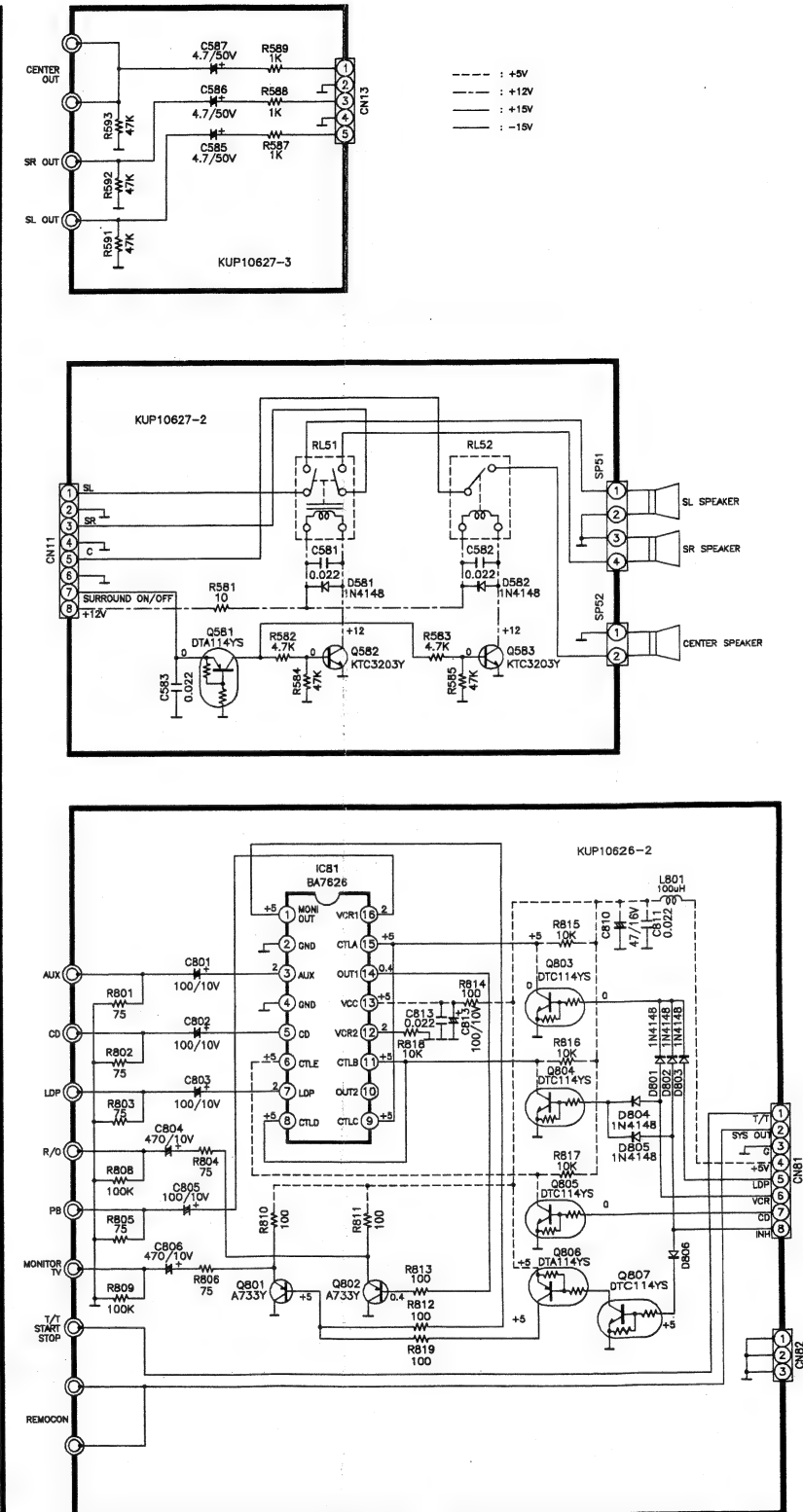
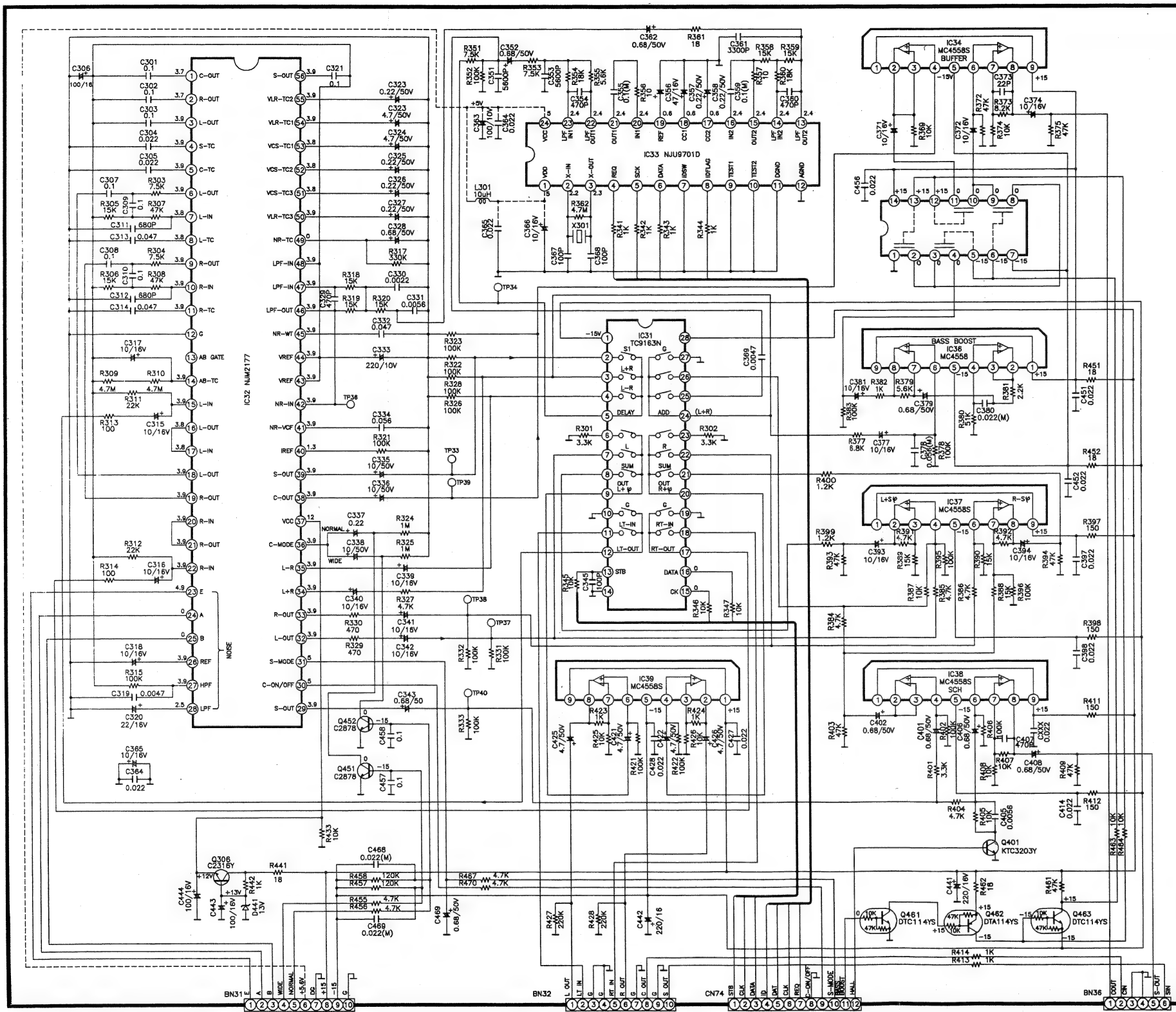
A-V3000P BLOCK DIAGRAM



■ A-V3000P SCHEMATIC DIAGRAM

● **MAIN**



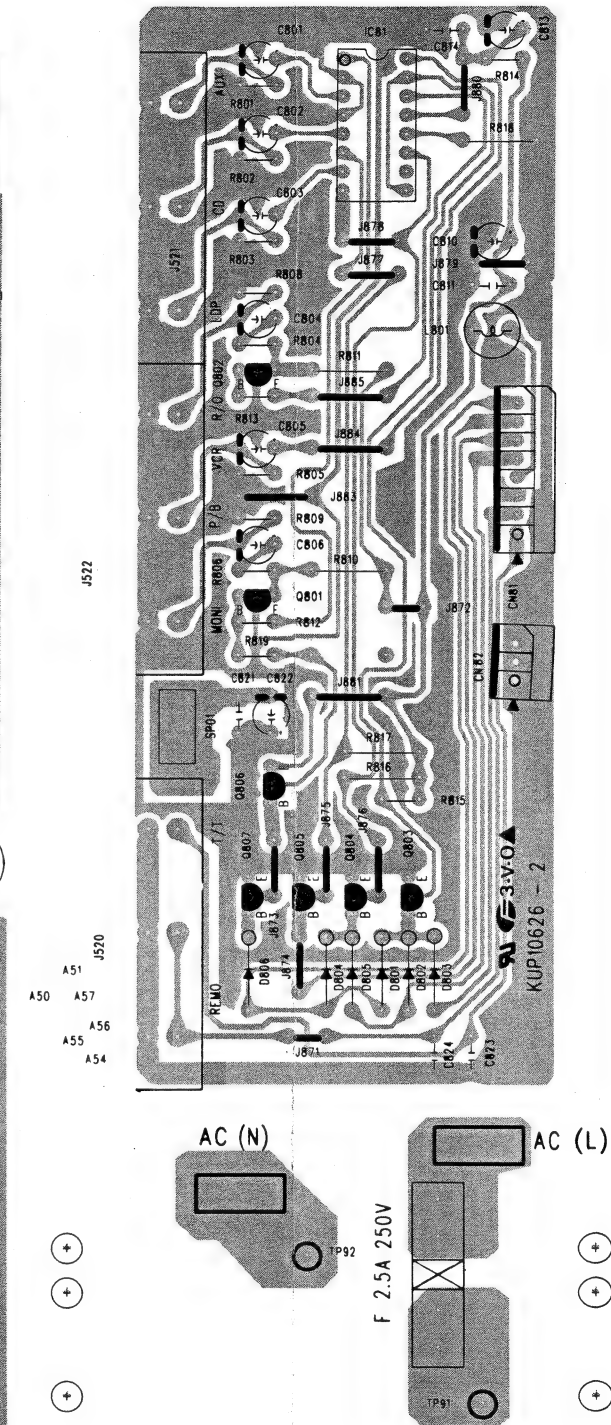
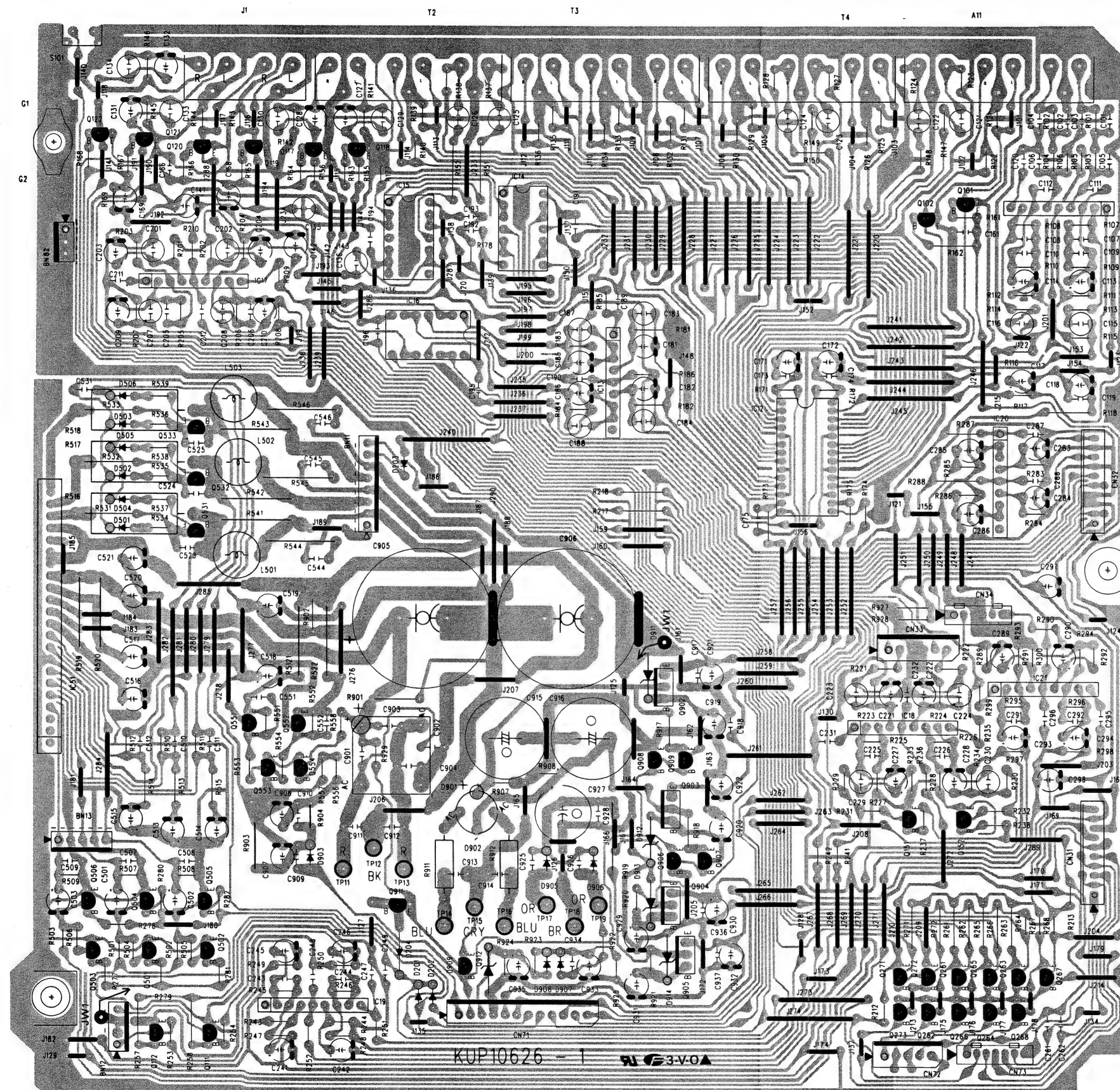


The schematic diagram illustrates the internal circuitry of a car stereo system, centered around two integrated circuits (ICs): IC71 (BIVANAM 1035A) and IC72. The circuit is divided into several functional sections:

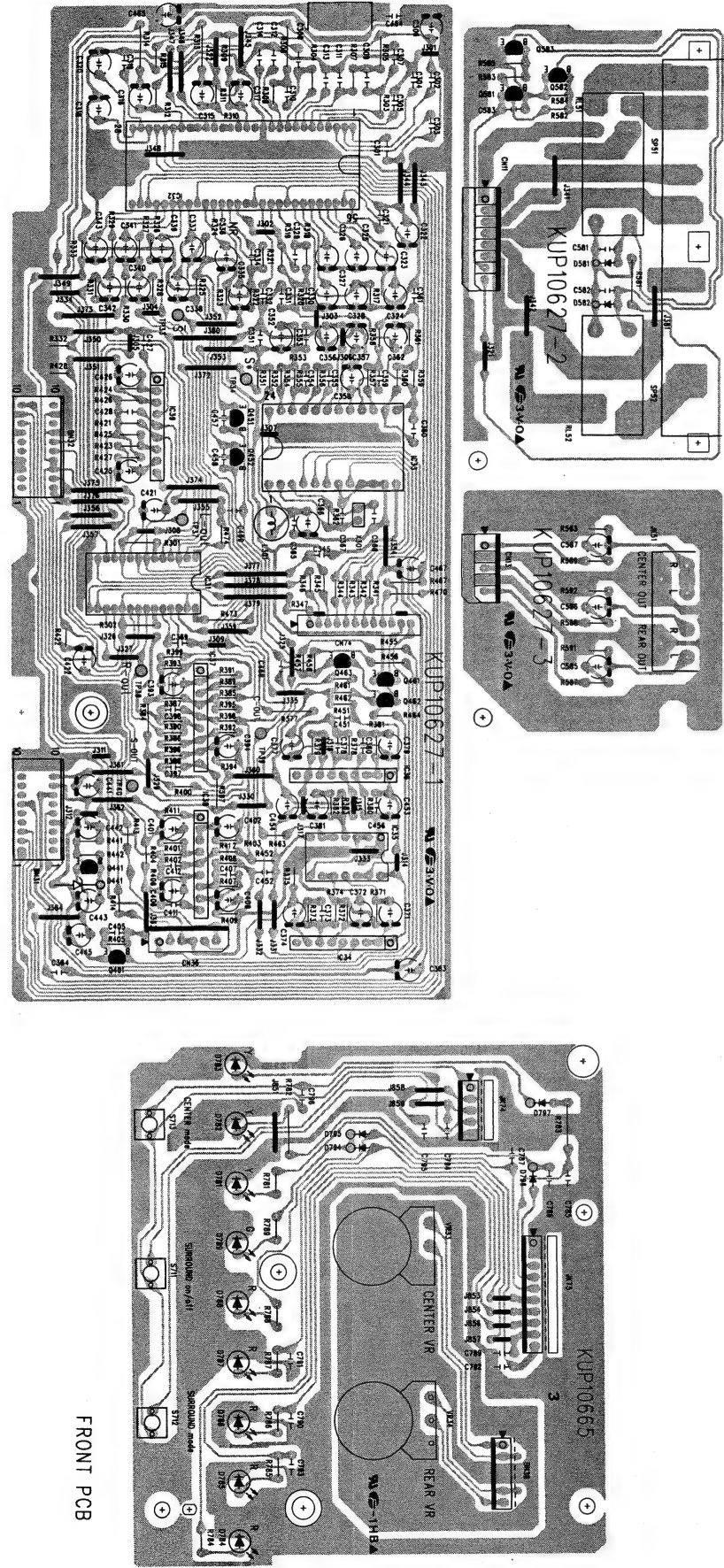
- Power and Biasing:** The top right section shows power supply connections, including a +5V regulator (KUP10628-6) and various resistors (R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1013, R1014, R1015, R1016, R1017, R1018, R1019, R1020, R1021, R1022, R1023, R1024, R1025, R1026, R1027, R1028, R1029, R1030, R1031, R1032, R1033, R1034, R1035, R1036, R1037, R1038, R1039, R1040, R1041, R1042, R1043, R1044, R1045, R1046, R1047, R1048, R1049, R1050, R1051, R1052, R1053, R1054, R1055, R1056, R1057, R1058, R1059, R1060, R1061, R1062, R1063, R1064, R1065, R1066, R1067, R1068, R1069, R1070, R1071, R1072, R1073, R1074, R1075, R1076, R1077, R1078, R1079, R1080, R1081, R1082, R1083, R1084, R1085, R1086, R1087, R1088, R1089, R1090, R1091, R1092, R1093, R1094, R1095, R1096, R1097, R1098, R1099, R1100, R1101, R1102, R1103, R1104, R1105, R1106, R1107, R1108, R1109, R1110, R1111, R1112, R1113, R1114, R1115, R1116, R1117, R1118, R1119, R1120, R1121, R1122, R1123, R1124, R1125, R1126, R1127, R1128, R1129, R1130, R1131, R1132, R1133, R1134, R1135, R1136, R1137, R1138, R1139, R1140, R1141, R1142, R1143, R1144, R1145, R1146, R1147, R1148, R1149, R1150, R1151, R1152, R1153, R1154, R1155, R1156, R1157, R1158, R1159, R1160, R1161, R1162, R1163, R1164, R1165, R1166, R1167, R1168, R1169, R1170, R1171, R1172, R1173, R1174, R1175, R1176, R1177, R1178, R1179, R1180, R1181, R1182, R1183, R1184, R1185, R1186, R1187, R1188, R1189, R1190, R1191, R1192, R1193, R1194, R1195, R1196, R1197, R1198, R1199, R1200, R1201, R1202, R1203, R1204, R1205, R1206, R1207, R1208, R1209, R1210, R1211, R1212, R1213, R1214, R1215, R1216, R1217, R1218, R1219, R1220, R1221, R1222, R1223, R1224, R1225, R1226, R1227, R1228, R1229, R1230, R1231, R1232, R1233, R1234, R1235, R1236, R1237, R1238, R1239, R1240, R1241, R1242, R1243, R1244, R1245, R1246, R1247, R1248, R1249, R1250, R1251, R1252, R1253, R1254, R1255, R1256, R1257, R1258, R1259, R1260, R1261, R1262, R1263, R1264, R1265, R1266, R1267, R1268, R1269, R1270, R1271, R1272, R1273, R1274, R1275, R1276, R1277, R1278, R1279, R1280, R1281, R1282, R1283, R1284, R1285, R1286, R1287, R1288, R1289, R1290, R1291, R1292, R1293, R1294, R1295, R1296, R1297, R1298, R1299, R1300, R1301, R1302, R1303, R1304, R1305, R1306, R1307, R1308, R1309, R1310, R1311, R1312, R1313, R1314, R1315, R1316, R1317, R1318, R1319, R1320, R1321, R1322, R1323, R1324, R1325, R1326, R1327, R1328, R1329, R1330, R1331, R1332, R1333, R1334, R1335, R1336, R1337, R1338, R1339, R1340, R1341, R1342, R1343, R1344, R1345, R1346, R1347, R1348, R1349, R1350, R1351, R1352, R1353, R1354, R1355, R1356, R1357, R1358, R1359, R1360, R1361, R1362, R1363, R1364, R1365, R1366, R1367, R1368, R1369, R1370, R1371, R1372, R1373, R1374, R1375, R1376, R1377, R1378, R1379, R1380, R1381, R1382, R1383, R1384, R1385, R1386, R1387, R1388, R1389, R1390, R1391, R1392, R1393, R1394, R1395, R1396, R1397, R1398, R1399, R1400, R1401, R1402, R1403, R1

■ A-V3000P PRINTED CIRCUIT BOARDS

● MAIN PCB



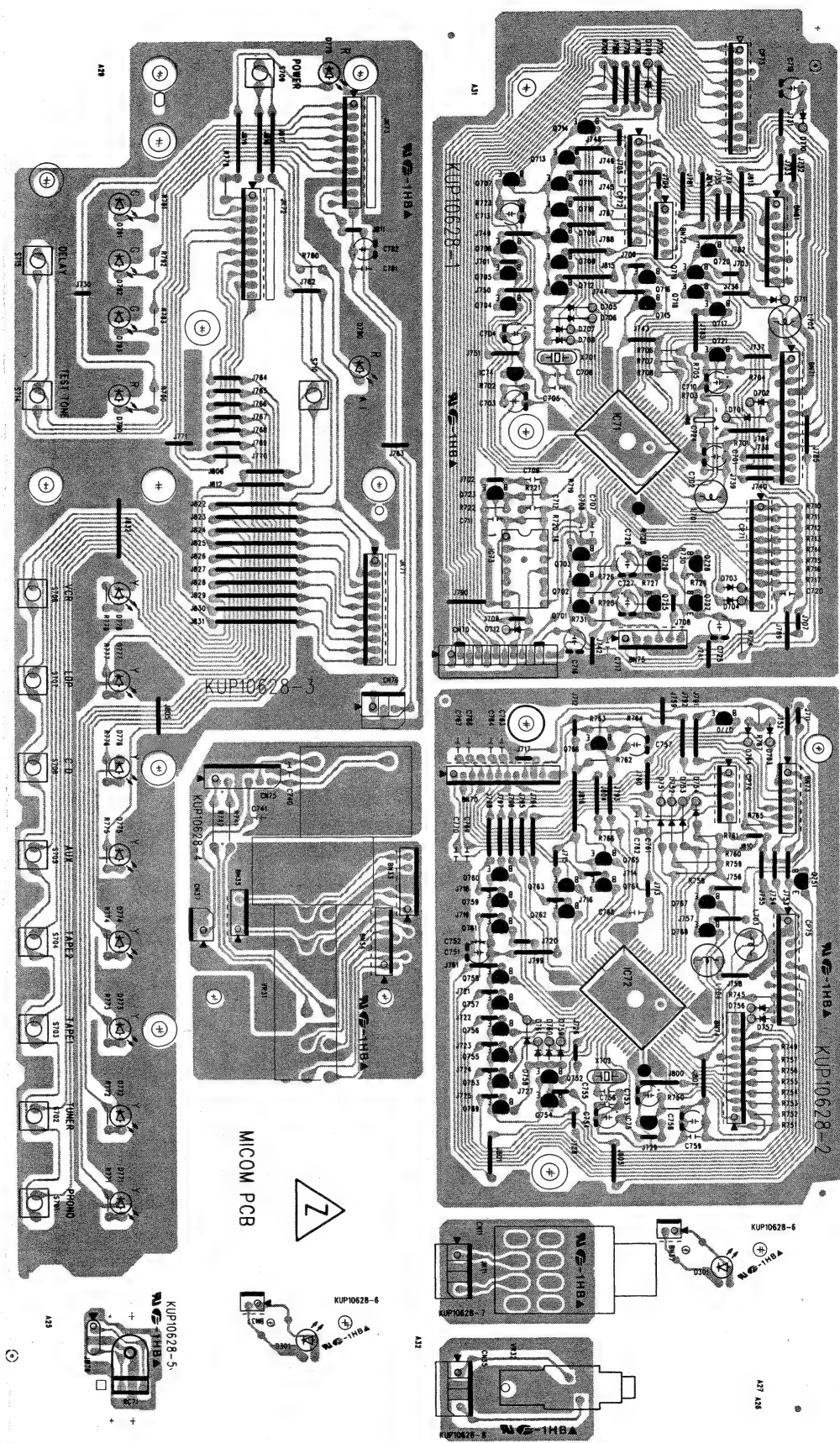
● SUB PCB



SURROUND PCB

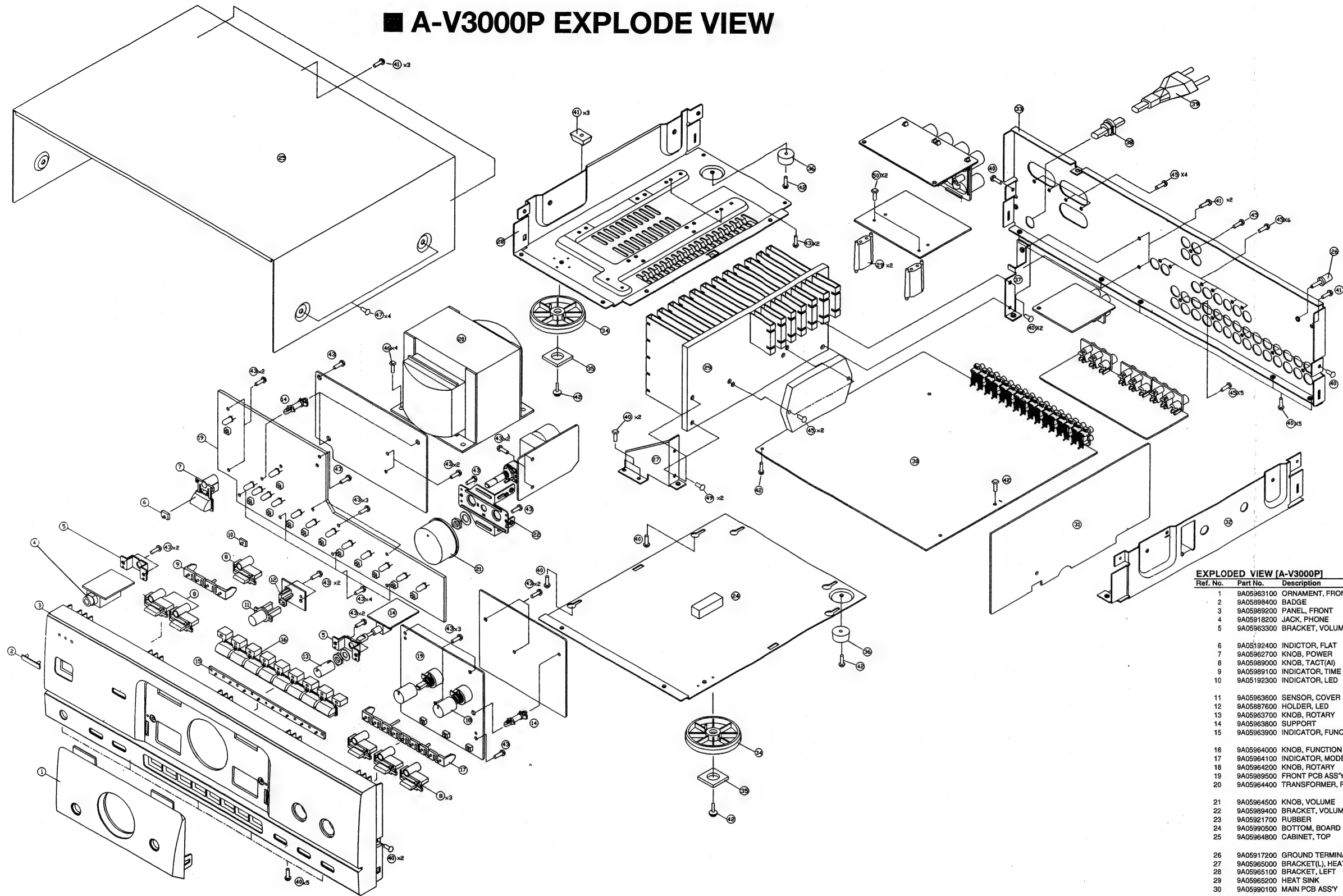
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● MICOM PCB



MICOM PCB

■ A-V3000P EXPLODE VIEW



EXPLODED VIEW [A-V3000P]

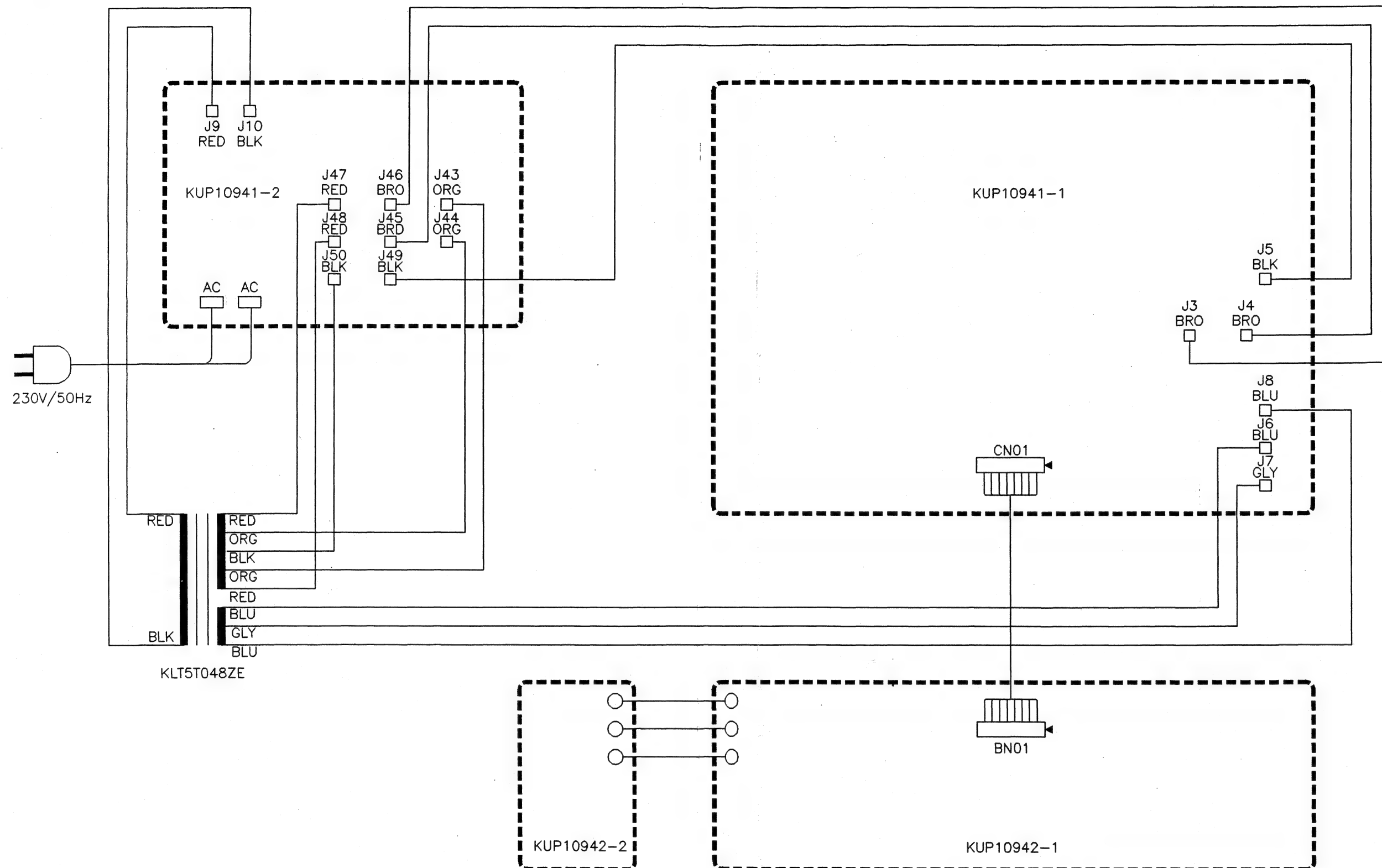
Ref. No.	Part No.	Description	Remarks
1	9A05983100	ORNAMENT, FRONT	
2	9A05989400	BADGE	
3	9A05989200	PANEL, FRONT	
4	9A05918200	JACK, PHONE	
5	9A05963300	BRACKET, VOLUME	
6	9A05192400	INDICATOR, FLAT	
7	9A05962700	KNOB, POWER	
8	9A05989000	KNOB, TACT(AI)	
9	9A05989100	INDICATOR, TIME	
10	9A05192300	INDICATOR, LED	
11	9A05963600	SENSOR, COVER	
12	9A05887600	HOLDER, LED	
13	9A05963700	KNOB, ROTARY	
14	9A05963800	SUPPORT	
15	9A05963900	INDICATOR, FUNCTION	
16	9A05964000	KNOB, FUNCTION	
17	9A05964100	INDICATOR, MODE	
18	9A05964200	KNOB, ROTARY	
19	9A05989500	FRONT PCB ASS'Y	
20	9A05964400	TRANSFORMER, POWER (EUR)	
21	9A05964500	KNOB, VOLUME	
22	9A05989400	BRACKET, VOLUME	
23	9A05921700	RUBBER	
24	9A05990500	BOTTOM, BOARD	
25	9A05964800	CABINET, TOP	
26	9A05917200	GROUND TERMINAL	
27	9A05965000	BRACKET(L), HEAT SINK	
28	9A05965100	BRACKET, LEFT	
29	9A05965200	HEAT SINK	
30	9A05990100	MAIN PCB ASS'Y	
31	9A05990200	SURROUND PCB ASS'Y	
32	9A05965500	BRACKET, RIGHT	
33	9A05965600	PANEL, REAR	
34	9A05891400	FOOT, FRONT	
35	9A05891500	FOOT, CUSHION	
36	9A05965700	FOOT, RUBBER	
37	9A05965800	BRACKET(R), HEAT SINK	
38	9A01376900	BUSHING, AC CORD	
39	9A05892200	CORD, POWER	

F901 9A05990700 FUSE

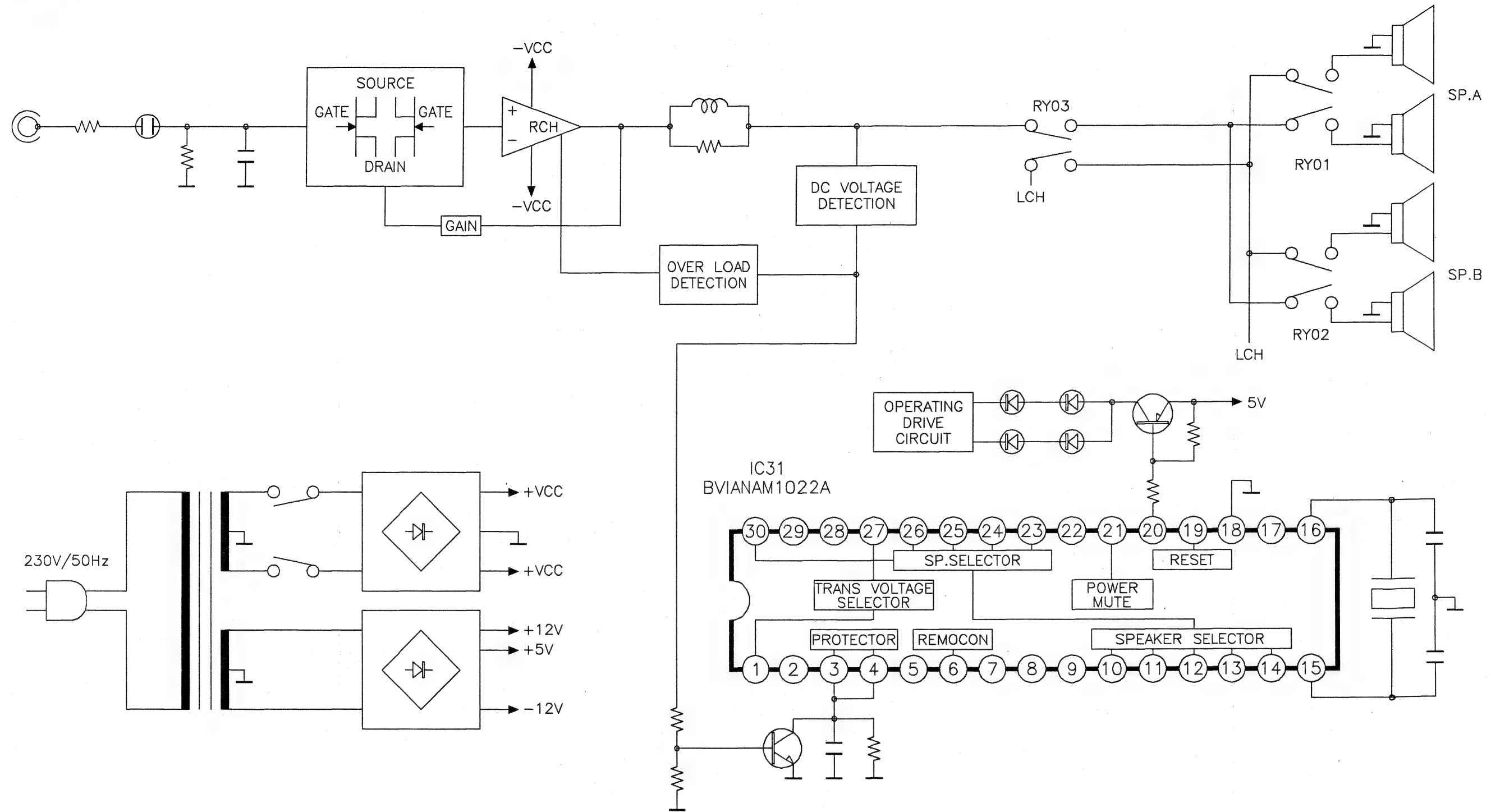
INCLUDED ACCESSORIES

Ref. No.	Part No.	Description	Remarks
	9A05989200	REMOTE CONTROL UNIT	
	9A05984700	MANUAL, INSTRUCTION	

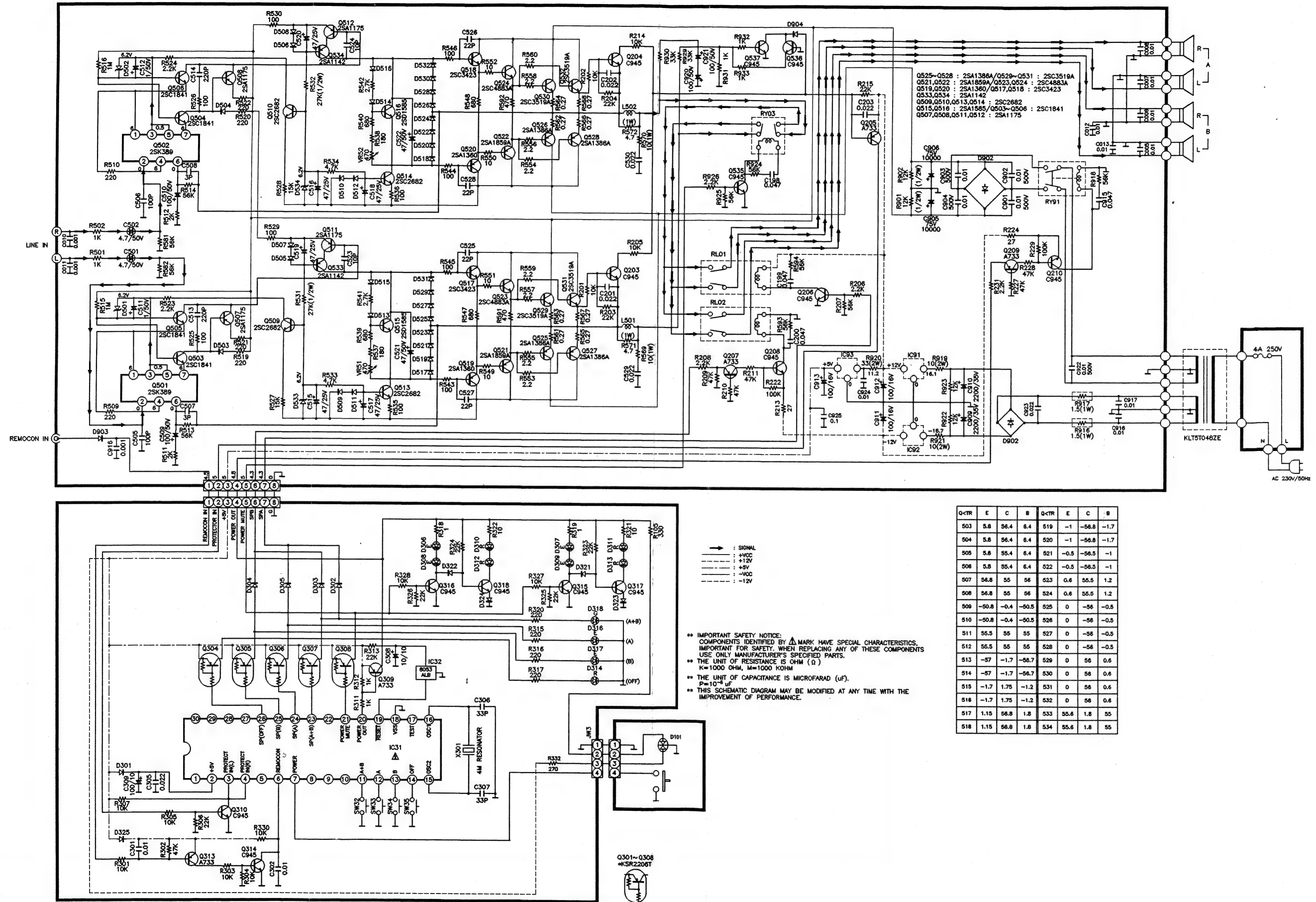
■ A-V3000M WIRING DIAGRAM



■ A-V3000M BLOCK DIAGRAM



A-V3000M SCHEMATIC DIAGRAM



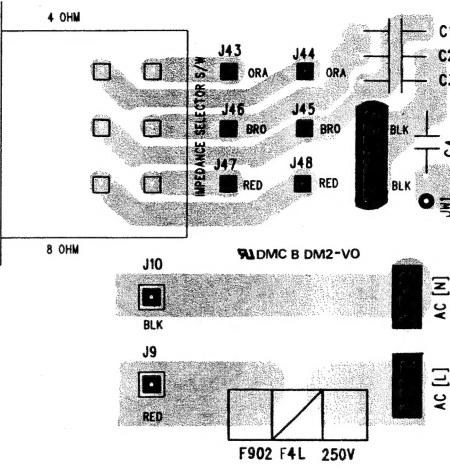
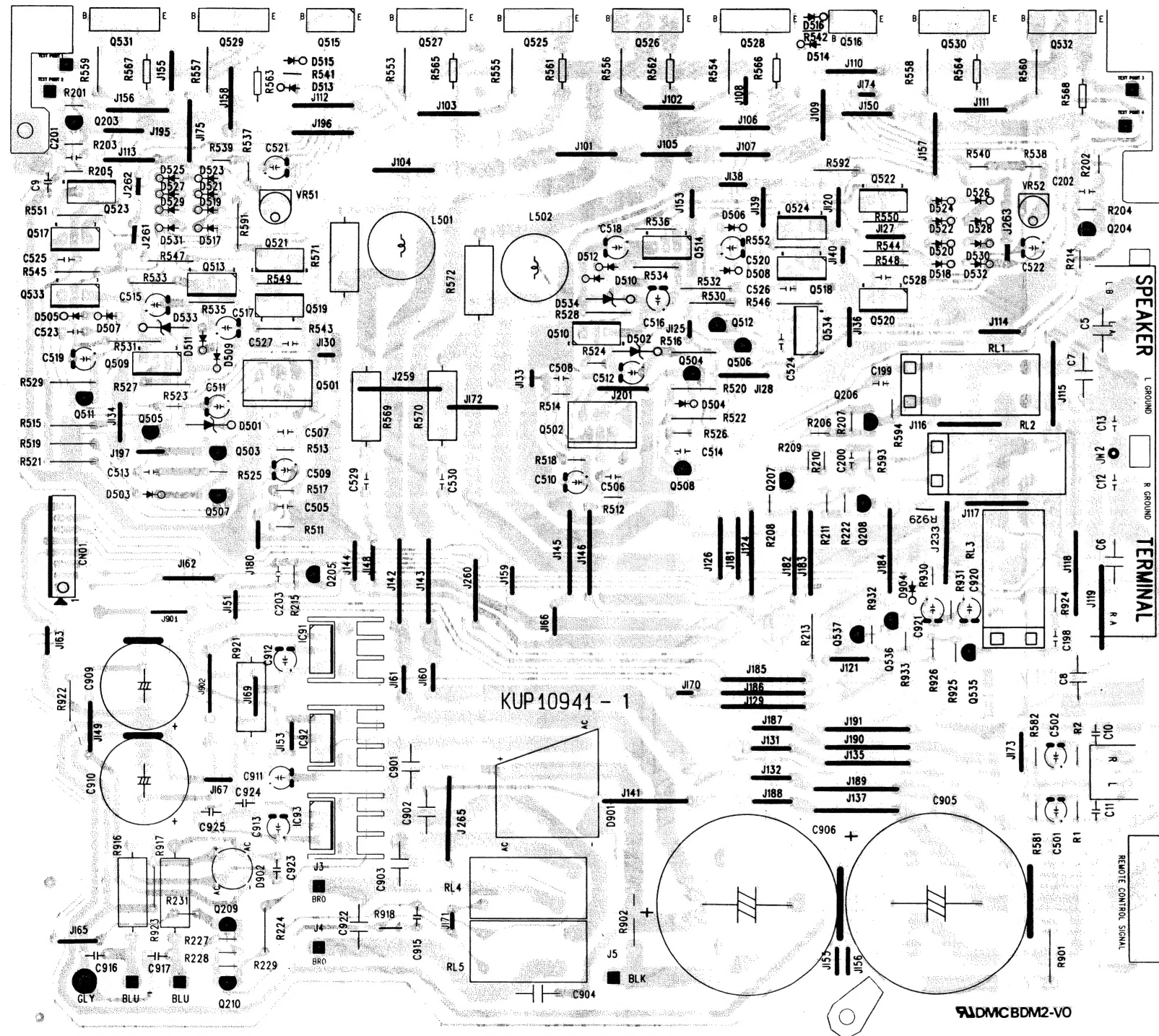
■ A-V3000M PRINTED CIRCUIT BOARDS

● MAIN PCB

KUP10941

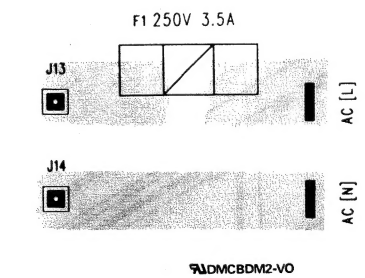


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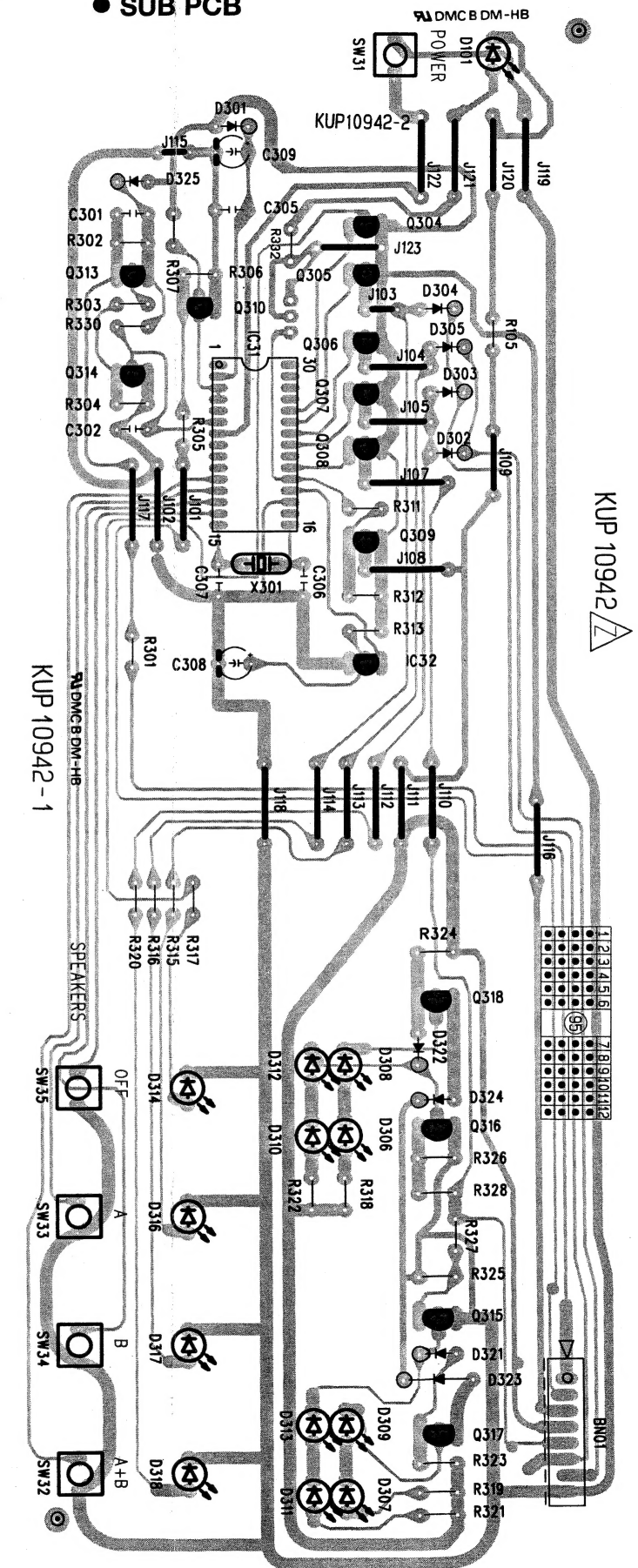
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KUP10941



KUP10941 - 2

● SUB PCB



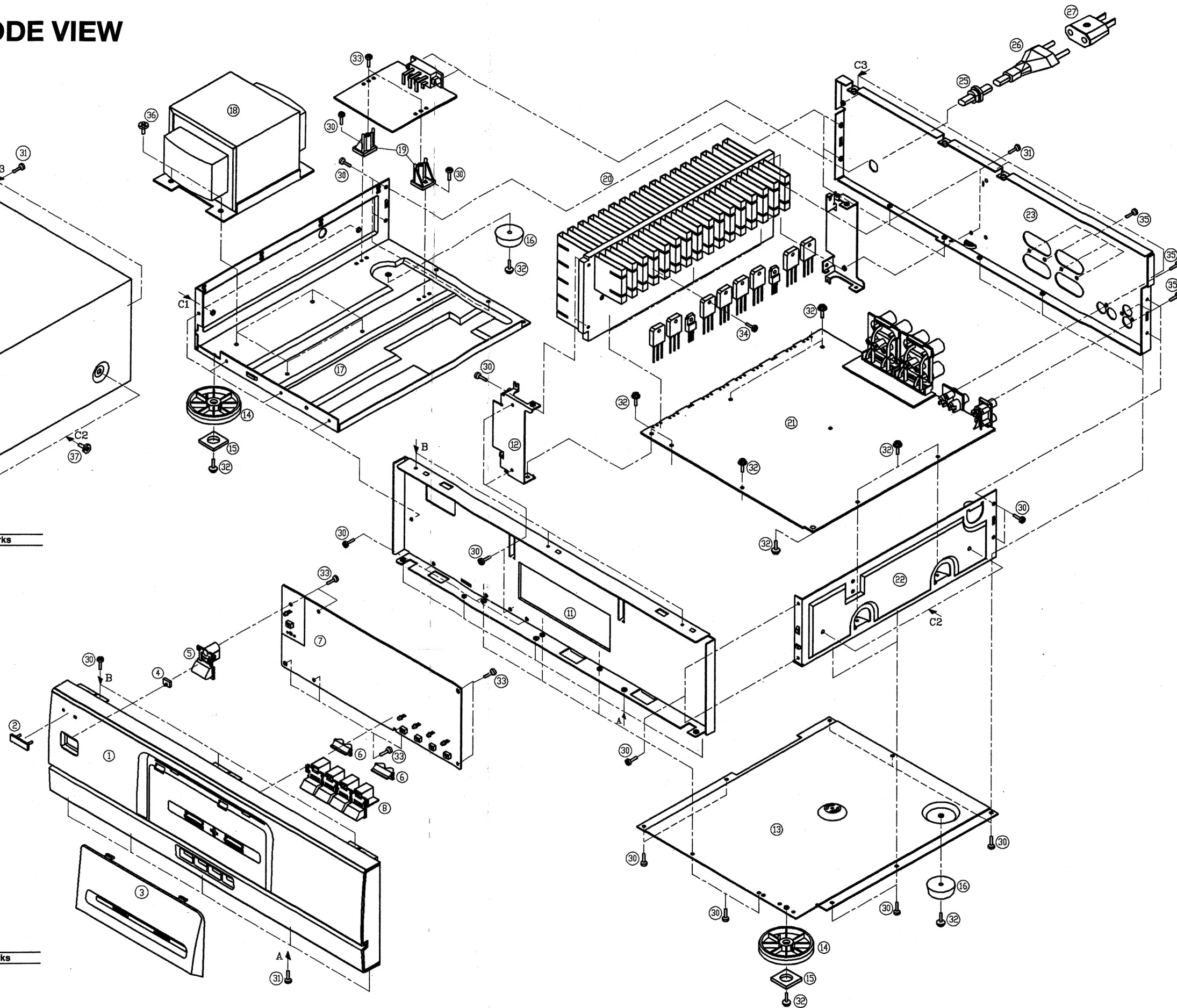
■ A-V3000M EXPLODE VIEW

EXPLODED VIEW [A-V3000M]

Ref. No.	Part No.	Description	Remarks
1	9A05962500	PANEL, FRONT	
2	9A05898400	BADGE	
3	9A05962600	ORNAMENT, FRONT	
4	9A05192400	INDICATOR, FLAT	
5	9A05962700	KNOB, POWER	
6	9A05962800	INDICATOR	
7	9A05985000	SUB PCB ASS'Y	
8	9A05963000	KNOB, TACT	
9		NUT	
10		WASHER	
11	9A05974400	CHASSIS, FRONT	
12	9A05974500	BRACKET, HEAT SINK	
13	9A05974600	PLATE, BOTTOM	
14	9A05891400	FOOT, FRONT	
15	9A05891500	FOOT, CUSHION	
16	9A05965700	FOOT, RUBBER	
17	9A05985500	CHASSIS, BOTTOM	
18	9A05974900	TRANSFORMER, POWER(EUR)	
19	9A05975000	HOLDER, GUIDE	
20	9A05975100	HEAT SINK	
21	9A05985400	MAIN PCB ASS'Y	
22	9A05892000	GUIDE, BOTTOM	
23	9A05975300	PANEL, REAR	
24	9A05892300	CABINET, TOP	
	9A01376900	BUSHING, AC CORD	
	9A05892200	CORD, POWER	
F902	9A05894900	FUSE F4A	

INCLUDED ACCESSORIES

Ref. No.	Part No.	Description	Remarks
	9A05984700	MANUAL, INSTRUCTION	



ELECTRICAL PARTS LIST

A-V3000P

MAIN PCB ASSY

Ref. No.	Part No.	Description
	9A05990100	MAIN PCB ASS'Y
	9A05328200	HOLDER , FUSE
	9A06026700	PCB, MAIN
	9A05916800	JACK, BOARD
	9A05832000	JACK INPUT
	9A04876000	JACK BOARD
	9A06012300	JACK, VCR
	9A06012400	TERMINAL, LUG
CN31,32	9A05970400	WAFER, 10P
CN33	9A05329600	WAFER MOLEX 5267-06A
CN34	9A05329700	WAFER MOLEX53014-0610
CN71	9A05967800	WAFER
CN72	9A05894700	WAFER(5P)
CN73	9A05356500	WAFER 07GA19ZM
CN81	9A05973000	WAFER,8P
CN82	9A05967900	WAFER
C905,906	Δ 9A01384800	C., ELEC. 8200UF/63V
C915,916	Δ 9A01402000	C,ELEC 2200UF/25V
C927	Δ 9A06015100	C,ELEC 1000UF/16V
D201-203	9A01390500	DIODE, 1N4148MT
D204	9A01390600	DIODE, 1N4148T
D501-506	9A01390500	DIODE, 1N4148MT
D801-806	9A01390600	DIODE, 1N4148T
D901	9A05970500	DIODE, PBPC1003F
D902	9A05987000	DIODE , BRIDGE , W02GF
D903	9A01390500	DIODE, 1N4148MT
D905-907	9A05194600	DIODE, 1N4003SRT
D908	9A01390500	DIODE, 1N4148MT
D909	Δ 9A05894800	DIODE, ZENER
D911,912	Δ 9A05970800	DIODE, UZ16BMT
D913,914	Δ 9A05902300	DIODE, ZENER,6.2Z
IC11	9A05195800	IC, MC4558S
IC12	9A05971100	IC., LC4966
IC13	9A05195800	IC, MC4558S
IC14-16	9A05971200	IC, LC4966
IC17-21	9A05195800	IC, MC4558S
IC51	9A05971300	IC., STK400-090
IC81	9A05973600	IC, BA7626
L501-503	9A04875100	COIL
L801	9A03746700	COIL
Q101,102	9A05896000	TR., KTC2878BT
Q111,112	9A05896000	TR., KTC2878BT
Q117-122	9A05896000	TR., KTC2878BT
Q151,152	9A05896000	TR., KTC2878BT
Q261	9A05196400	TR, DTA114YST
Q262	9A05196500	TR, DTC114YST
Q263	9A05196400	TR, DTA114YST
Q264	9A05196500	TR, DTC114YST
Q265	9A05196400	TR, DTA114YST
Q266	9A05196500	TR, DTC114YST
Q267	9A05196400	TR, DTA114YST
Q268,271	9A05196500	TR, DTC114YST
Q272	9A05196400	TR, DTA114YST
Q273	9A05196500	TR, DTC114YST
Q501,506	9A05896000	TR., KTC2878BT
Q531-533	9A05895900	TR., A1266
Q551,552	9A05196800	TR, KSC2316YT
Q553	9A05895900	TR., A1266
Q554	9A05892800	TR., C3198
Q801,802	9A01387400	TR, KSA733CYT

MAIN PCB ASSY

Ref. No.	Part No.	Description
Q803-805	9A05196500	TR, DTC114YST
Q806	9A05196400	TR, DTA114YST
Q807	9A05196500	TR, DTC114YST
Q902	9A01388300	TR., KVTKSD288Y
Q903	9A01388400	TR, DTA114YST
Q904,905	9A01388300	TR., KVTKSD288Y
Q906	9A05196400	TR, DTA114YST
Q907,908	9A05196500	TR, DTC114YST
Q909,911	9A05196400	TR, DTA114YST
Q912	9A05196500	TR, DTC114YST
R516-518	9A06017100	R., CEMENT 0.27-OHM,3W
R519-522	9A05971700	R., 100-HM,1W
R541-543	9A05896400	R., 4.7-OHM,1W
R544-546	9A05338000	R, METAL 1ANJ100H
R911,912	9A05971800	R., 1.5-OHM,1W
R919	9A05907900	R., 27-OHM,1W
SP01	9A06017500	SPRING, EARTH
S101	9A04882400	SW, TACT

SURROUND PCB ASSY

Ref. No.	Part No.	Description
	9A05990200	SURROUND PCB ASS'Y
	9A06028200	PCB, SURRPUND
BN31,32	9A05972000	WAFER, 5P
CN11	9A05973000	WAFER, 8P
CN13	9A05973100	WAFER, 5P
CN36	9A05329600	WAFER MOLEX 5267-06A
CN74	9A05331000	WAFER MOLEX 53014-1210
D441	Δ 9A05902000	DIODE, ZENER,13V
D581,582	9A01390500	DIODE, 1N4148MT
IC31	9A05971100	IC., TC9163N
IC32	9A05973300	IC., NJM2177L
IC33	9A06017700	IC., NJU9702D
IC34	9A05195800	IC, MC4558S
IC35	9A05971200	IC., LC4966
IC36,37	9A05195800	IC, MC4558S
IC38,39	9A05195800	IC, MC4558S
JK51	9A05832000	JACK IN/PUT
L301	9A03746700	COIL
Q401	9A05197400	TR., KTC3203YT
Q441	9A05196800	TR, KSC2316YT
Q451,452	9A05896000	TR, KTC2878BT
Q461	9A05196500	TR, DTC114YST
Q462	9A05196400	TR, DTA114YST
Q463	9A05196500	TR, DTC114YST
Q581	9A05196400	TR, DTA114YST
Q582,583	9A05197400	TR, KTC3203YT
RL51	9A01423700	RELAY
RL52	9A05987100	RELAY
SP51	9A06017900	TERMINAL, SPEAKER
SP52	9A05974200	TERMINAL, SP,CENTER
X301	9A06018000	RESONATOR, CERAMIC

M-CON PCB ASSY

Ref. No.	Part No.	Description
	9A05989600	M-COM PCB ASS'Y
	9A05326900	SUPPORT , LED
	9A06023700	PCB, M-COM
CN11,35	9A05967700	WAFER
CN37	9A05328900	WAFER MOLEX 5267-02A
CN70	9A05991300	WAFER, ANGLE
CN75	9A05329600	WAFER MOLEX 5267-06A
CN76	9A05967900	WAFER
CP71	9A05991400	WAFER
CP72	9A05991500	TERMINAL
CP73	9A05991500	TERMINAL
CP74	9A05991600	TERMINAL
CP75	9A05991500	TERMINAL
D301	9A05968000	DIODE
D701	9A01390600	DIODE, 1N4148T
D702	9A05194600	DIODE, 1N4003SRT
D703,704	9A01390500	DIODE, 1N4148MT
D705,706	9A01390600	DIODE, 1N4148T
D707,708	9A01390500	DIODE, 1N4148MT
D709	9A01390600	DIODE, 1N4148T
D710-712	9A01390500	DIODE, 1N4148MT
D751-753	9A01390600	DIODE, 1N4148T
D754-757	9A01390500	DIODE, 1N4148MT
D758	9A01390600	DIODE, 1N4148T
D759-764	9A01390500	DIODE, 1N4148MT
D771-778	9A05890300	LED, YCF02T085
D779	9A05194300	LED, SPR39MVW3
D780,790	9A05195000	LED, 342VCF02T085 LED
D791-793	9A05194900	LED, 342MCF02T085 GRN
IC71	9A05968100	IC., ANAM1035A
IC72	9A05968200	IC., ANAM1078A
IC73	9A04880900	IC, NJU74HC14D
IC74,75	9A05317300	IC, RE5VA30CC
JK11	9A05316900	JACK HTJ064-05BG
JK11	9A05918200	JACK, PHONE
JK72,73	9A05968400	JACK
L701-704	9A05968600	COIL
Q701-703	9A05196400	TR, DTA114YST
Q704	9A05196500	TR, DTC114YST
Q705,706	9A05196400	TR, DTA114YST
Q707	9A05196500	TR, DTC114YST
Q708-716	9A05196400	TR, DTA114YST
Q717	9A05196500	TR, DTC114YST
Q718-720	9A05196400	TR, DTA114YST
Q721,723	9A05892800	TR., C3198
Q725,726	9A05197400	TR, KTC3203YT
Q727,728	9A05197200	TR, KTA1271YT
Q751-755	9A05196400	TR, DTA114YST
Q756-765	9A05196400	TR, DTA114YST
Q766	9A05892800	TR., C3198
Q767-769	9A05196400	TR, DTA114YST
Q770	9A05196500	TR, DTC114YST
RC71	9A06011300	SENSOR, REMOCOON
S701-710	9A04882500	SW, TACT
S714,715	9A04882500	SW, TACT
VR31	9A06011800	MOTOR, VR(100KA*4.10KB*1)
VR32	9A05968900	VR., 220KB
X701	9A05969100	CRYSTAL, 8MHZ
X702	9A04874200	CRYSTAL

FRONT PCB ASSY

Ref. No.	Part No.	Description
	9A05989500	FRONT PCB ASS'Y
	9A06023600	PCB,FRONT
D781-783	9A05890300	LED, YCF02T085
D784-788	9A05195000	LED,342VCF02T085 LED
D789	9A05194900	LED,342MCF02T085 GRN
D794-797	9A01390500	DIODE, 1N4148MT
JK74	9A05968500	JACK
JK75	9A05968400	JACK
VR33	9A05969000	VR.,50KB
VR34	9A05969000	VR.,50KB

A-V3000M

MAIN PCB ASSY

Ref. No.	Part No.	Description
CN01	9A05985400	MAIN PCB ASSY
	9A05987500	PCB , MAIN
	9A05976100	PCB, MAIN
	9A05986500	SW , SLIDE
	9A05986700	WAFER
C002	9A05916800	JACK, BOARD
C003-008	△ 9A05894500	C,,0.01UF,500V
C901-904	△ 9A05894500	C,,0.01UF,500V
C905,906	△ 9A05986800	C,ELEC 1000UF/75V
C909,910	△ 9A01402000	C,ELEC 2200UF/25V
C920/921	△ 9A05986900	C,ELEC. 100UF/50V
C922	△ 9A05894500	C,,0.01UF,500V
D501,502	△ 9A05902300	DIODE,ZENER,6.2Z
D503-504	△ 9A01390500	DIODE,1N4148MT
D533,534	△ 9A05902300	DIODE,ZENER,6.2Z
D901	△ 9A05987900	DIODE , BRIDGE, BPC2504WF
D902	△ 9A05987000	DIODE , BRIDGE, W02GF
D904	9A01390500	DIODE,1N4148MT
F001	9A05328200	HOLDER , FUSE
IC91	△ 9A05196000	IC,MC7812C
IC92	△ 9A05988200	IC,,MC7912C
IC93	△ 9A05341500	IC, MC7805C
L501,502	△ 9A05895800	COIL
Q203,204	9A01388800	TR,KSC945CYT
Q205	9A01387400	TR,KSA733CYT
Q206	9A01388800	TR,KSC945CYT
Q207	9A01387400	TR,KSA733CYT
Q208	9A01388800	TR,KSC945CYT
Q209	9A01387400	TR,KSA733CYT
Q210	9A01388800	TR,KSC945CYT
Q503-506	9A05976900	TR,,2SC1841
Q507,508	9A05977000	TR,,2SA1175
Q509,510	9A05977100	TR,,2SC2682
Q511,512	9A05977000	TR,,2SA1175
Q513,514	9A05977100	TR,,2SC2682
Q515,516	9A05977200	TR,,2SD1585
Q517,518	9A05977300	TR,,2SC3423
Q519,520	9A05977400	TR,,2SA1360
Q521,522	9A05977500	TR,,2SA1859A
Q523,524	9A05977600	TR,,2SC4883A
Q525-528	△ 9A05977700	TR,,2SA1386A
Q529-532	△ 9A05987800	TR,,2SC3519A
Q533,534	9A05977900	TR,,2SA1142
Q535-537	9A01388800	TR,KSC945CYT
RY01-03	△ 9A01423700	RELAY
RY04,05	△ 9A05987100	RELAY
R531,532	△ 9A05978400	R,,27K-OHM,1W
R553-560	△ 9A05978800	R,,2.2-OHM
R561-568	△ 9A05896300	R,,0.22-OHM,5W
R569,570	△ 9A05978900	R,,10-OHM,2W
R571,572	△ 9A05979000	R,,4.7-OHM,2W
R901,902	△ 9A05896900	R,,12K-OHM,1/2W
R916,917	△ 9A05979200	R,,1.5-OHM,1W
R921	△ 9A05978900	R,,10-OHM,2W
SP01	9A05987200	TERMINAL , SPEAKER
VR51,52	9A05979600	VR,,SEMI FIXED

SUB PCB ASSY

Ref. No.	Part No.	Description
D101	9A05985000	SUB PCB ASS'Y
	9A05987300	PCB , SUB
	9A05194300	LED,SPR39MVW3
	9A01390500	DIODE,1N4148MT
	9A05900300	LED, LTF02T085
D310-313	9A05890300	LED, YCF02T085
D314	9A05987400	LED, VCF06T085
D316,317	9A05890300	LED, YCF02T085
D318	9A05194900	LED,342MCF02T085 GRN
D321,322	9A01390500	DIODE,1N4148MT
D323	9A01390600	DIODE,1N4148T
D324,325	9A01390500	DIODE,1N4148MT
IC31	9A05986100	IC,,ANAM1022A
IC32	9A05317300	I.C RE5VA30CC
Q304-308	9A03745200	TR,,KVTKSR2206T
Q309	9A01387400	TR,KSA733CYT
Q310	9A01388800	TR,KSC945CYT
Q313	9A01387400	TR,KSA733CYT
Q314-318	9A01388800	TR,KSC945CYT
SW31-35	9A04882500	SW,TACT
X301	9A05975800	RESONATOR,CERAMIC